AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 1-18. (Cancelled)
- 19. (Cancelled)
- 20. (Currently Amended) The system of claim 1930, wherein the controller provides an indication to a vehicle operator that the selected component may require attention.
- 21. (Currently Amended) The system of claim 1920, including a visual display and wherein the controller provides a visual indication to the vehicle operator.
- 22. (Previously Presented) The system of claim 21, wherein the controller provides the visual indication at least upon one of each vehicle start up or each vehicle shut down.
- 23. (Previously Presented) The system of claim 21, wherein the controller provides the visual indication at a time when the controller determines that attention may be needed.

- (Previously Presented) The system of claim 20, wherein the controller provides 24. an audible indication to the driver.
- 25. (Currently Amended) The system of claim 1930, wherein the controller alters a performance of the vehicle responsive to determining that the component requires immediate attention.
- 26. (Currently Amended) The system of claim 1930, wherein the sensor comprises an acoustic sensor that detects a noise associated with operation of the component and the controller determines whether a detected noise indicates that the component may require attention.
- 27. (Previously Presented) The system of claim 26, wherein the controller accesses information regarding frequency and sound quality that distinguishes between acceptable noises and noises that are indicative of potential problems.
- 28. (Currently Amended) The system of claim 1930, wherein the sensor comprises at least one of a wheel speed sensor, a brake pressure monitor, a steering angle sensor or a heat sensor.
- 29. (Cancelled)

30. (Currently Amended) The system of okaim 29, A system for monitoring a condition of a component on a vehicle, comprising:

at least one sensor device that indicates a condition of a selected component on the vehicle;

a controller that communicates with the sensor device and determines when the selected component may require attention,

wherein the controller determines a profile of component performance within a frequency domain; and

wherein the controller determines a three dimensional profile having six degrees of freedom and wherein the controller determines a signature of performance of the component for a driving condition, the signature being based upon performance of the component in at least one of the degrees of freedom.

- 31. (Currently Amended) The system of claim 30, wherein the controller determines the driving condition corresponding to at least one of average vehicle speed, average vehicle weight or total sprung mass and utilizes to the driving condition information when determining the component signature.
- 32. (Currently Amended) The system of claim 3130, wherein the controller determines an initial signature and compares the initial signature to a later-determined signature for the same component.

- 33. (Currently Amended) The system of claim 3130, wherein the controller determines a first signature for a first component and a second signature for a second, similar component and wherein the controller compares the first and second signatures when determining the condition of at least one of the first and second components.
- 34. (New) A system for monitoring a condition of a component on a vehicle, comprising:

at least one sensor device that indicates a condition of a selected component on a vehicle; and

a controller that communicates with a sensor device and determines when the selected component may require attention by determining a three dimensional profile having six degrees of freedom and determining a signature of performance of the component for a driving condition, the signature being based upon performance of the component in at least one of the degrees of freedom.

- 35. (New) The system of claim 34, wherein the controller determines the driving condition corresponding to at least one of average vehicle speed, average vehicle weight or total sprung mass and utilizes the driving condition information when determining the component signature.
- 36. (New) The system of claim 34, wherein the controller determines an initial signature and compares the initial signature to a later-determined signature for the same component.

- 37. (New) The system of claim 34, wherein the controller determines a first signature for a first component and a second signature for a second, similar component and wherein the controller compares the first and second signatures when determining the condition of at least one of the first and second components.
- 38. (New) The system of claim 34, wherein the controller determines the profile within a frequency domain.